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Heterogeneity of antiferroelectric phase of mixed radp crystals: Epr investigation

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Abstract

Detailed study of antiferroelectric (AFE) branch of mixed crystals Rb,, (NH,),H,PO, phase diagram x > 0.74 has been carried out by means of TI+ EPR probe. The coexistence of two structurally nonequivalent centers of thallium in low-temperature AFE phase was discovered. The analysis of EPR spectra parameters indicate that one of both centers exhibits some glass-like behaviour. resembling the EPR of TI2+ in proton glass x < 0.74.

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Keywords

EPR, phase transitions, proton glass